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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY USSR/Korea

DATE DISTR. 30 Aug 1951 25X1A

SUBJECT Chemical Analysis of Soviet Rubber Catheter

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[redacted]

1. Chemical analysis of a Soviet-produced, red rubber, surgical catheter has yielded the following information:

a. Specific gravity 1.125

b. Chemical constituents:

Acetone extract	8.35%
Total sulfur	8.45
Natural rubber	56.75
Synthetic rubber	12.95
Ash	13.50

c. Analysis of the ash:

Magnesium oxide	3.45%
Calcium oxide	0.27
Iron & Aluminum oxides	0.33
Acid insoluble ash	7.96

d. Analysis of acid insoluble ash:

Titanium dioxide	4.2 %
Silicon dioxide	0.4
Iron & Aluminum oxides	0.48
Barium sulfate	1.27

2. The source of this analysis has offered the following amplifying comment:

a. As it is apparent from the above, the compound contains a large amount of natural rubber and a small amount of synthetic rubber.

b. Apparently a sulphur-bearing accelerator such as Tuads was used in the production of the sample.

c. No zinc oxide was found in the composition, but it does contain magnesium oxide which may have served as an activator for the accelerator.

d. The minerals present consist essentially of Titanium dioxide and Barium sulfate. Also present is about one per cent of clay and silicates which may have been introduced in processing.

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